

STATE OF NEW HAMPSHIRE
DEPARTMENT OF ADMINISTRATIVE SERVICES
DIVISION OF PLANT AND PROPERTY MANAGEMENT
BUREAU OF PURCHASE AND PROPERTY

BID INVITATION/REQUEST FOR PROPOSAL FOR:

HOT WATER BOILER & HOT AIR FURNACE, SUPPLY & INSTALL

127

RESPONSE DUE (DATE & TIME): NOVEMBER 19, 2003 @ 1:30 PM

SPECIAL INSTRUCTIONS:

State of New Hampshire
Division of Plant and Property Management
Bureau of Purchase and Property
25 Capitol Street, State House Annex
Concord, New Hampshire 03301-6398

Date: 10-28-2003

Bid No.: 127

Date of Bid Opening: 11-19-2003

Time of Bid Opening: 1:30 pm

PLEASE DIRECT ANY QUESTIONS REGARDING THIS BID TO: Michael P. Walsh II, Purchasing Agent

TEL. NO: (603) 271-3235 - FAX No. (603) 271-2700

BID INVITATION FOR: HOT WATER BOILER & HOT AIR FURNACE, SUPPLY & INSTALL

Unless specifically amended or deleted by the Division of Plant and Property Management, the following General Terms and Conditions apply to this Bid and any resulting Purchase Order or Contract.

GENERAL CONDITIONS AND INSTRUCTIONS:

NATURE OF, AND ELIGIBILITY TO RESPOND. This RFP is submitted in accordance with Chapter 21-1, and rules promulgated thereunder, and constitutes a firm and binding offer. An RFP may not be withdrawn unless permission is obtained from the Bureau of Purchase and Property.

RFPs may be issued only by the Bureau of Purchase and Property and are not transferable.

SAMPLES AND DEMONSTRATIONS. When samples are required they must be submitted free of costs and will not be returned.

Items left for demonstration or evaluation purposes shall be delivered and installed free of charge and shall be removed at no cost to the State. Demonstration units shall not be offered to the State as new equipment.

Proposals. Proposals must be received at the Bureau of Purchase and Property before the date and time specified for the opening. Proposals must be submitted on this proposal form or exact copies and must be typed or clearly printed in ink. Corrections must be initialed. Proposals are to be made less Federal Excise Tax and no charge for handling unless required by law.

Proposals will be made available to the public after the time of award. Proposal results will be given by mail only if requested in writing and accompanied by a self-addressed, stamped business size envelope.

SPECIFICATIONS. Vendors must submit on items as specified. Proposed changes must be submitted in writing and received at the Bureau of Purchase and Property at least five (5) working days prior to the bid opening. Vendors shall be notified in writing if any changes to the specifications are made.

AWARD. The award will be made to the responsible Vendor submitting a conforming RFP meeting specifications at the lowest cost unless other criteria are noted in the RFP. Unless otherwise noted, the award may be made by individual items. If there is a discrepancy between the unit price and the extension, the unit price will prevail.

When identical low proposals are received the award will be made in accordance with the Administrative Rules.

Discounts will not be considered in making award but may be offered on the Invoice for earlier payment and will be applicable on the date of completion of delivery or receipt of Invoice, whichever is later. On orders specifying split deliveries, discounts will apply on the basis of each delivery or receipt of Invoice, whichever is later.

PATENT INFRINGEMENT. Any responding vendor who has reason to believe that any other responding vendor will violate a patent should such responding vendor be awarded the contract shall set forth in writing, prior to the date and time of opening, the grounds for his belief and a detailed description of the patent.

ASSIGNMENT PROVISION. The responding vendor hereby agrees to assign all causes of action that it may acquire under the antitrust laws of New Hampshire and the United States as the result of conspiracies, combinations, or contracts in restraint of trade which materially affect the price of goods or services obtained by the state under this contract if so requested by the State of New Hampshire.

FEDERAL FUNDS. This Division of Plant and Property Management, under RSA 21-1:14, VIII shall assure the continuation or granting of federal funds or other assistance not otherwise provided for by law by following the Federal Procurement Standards.

STATE'S OPTIONS: The Bureau of Purchase and Property reserves the right to reject or accept all or any part of any proposal, to determine what constitutes a conforming RFP, to award the RFP solely as it deems to be in the best interest of the State, and to waive irregularities that it considers not material to the RFP.

PUBLIC INFORMATION: The responding vendor hereby acknowledges that all information relating to this RFP and any resulting order (including but not limited to fees, contracts, agreements and prices) are subject to these laws of the State of New Hampshire regarding public information.

PERSONAL LIABILITY: The responding vendor agrees that in the preparation of this RFP or the execution of any resulting contract or order, representatives of the State of New Hampshire shall incur no liability of any kind.

PROOF OF COMPLIANCE. The responding vendor may be required to supply proof of compliance with proposal specifications. When requested, the responding vendor must immediately supply the Bureau of Purchase and Property with certified test results or certificates of compliance. Where none are available, the State may require independent laboratory testing. All costs for such testing, certified test results or certificate of compliance shall be the responsibility of the responding vendor.

FORM OF CONTRACT. The terms and conditions set forth in any additional Terms and Conditions by the Bureau of Purchase and Property are part of the proposal and will apply to any contract awarded the responding vendor unless specific exceptions are taken and accepted and will prevail over any contrary provisions in Terms and Conditions submitted by the responding vendor.

OFFER. The undersigned hereby offers to sell to the State of New Hampshire the commodities or services indicated in the following page(s) of this RFP at the price(s) quoted in complete accordance with all conditions of this RFP.

Company

Name: _____

Address: _____

Tel.:(local) _____ **(Toll free)** _____

Fax#: _____

Authorized

Signature: _____

(TYPE OR PRINT NAME)

This document must be signed by a person who is authorized to legally obligate the responding vendor. A signature on this document indicates that all State of New Hampshire terms and conditions are accepted by the responding vendor and that any and all other terms and conditions submitted by the responding vendor are null and void, even if such terms and conditions have terminology to the contrary. The responding vendor shall also be subject to State of New Hampshire terms and conditions as stated on the reverse of the purchase order.

CONTRACT TERMS AND CONDITIONS

1. The State of New Hampshire, acting through the Division of Plant and Property Management, engages the firm or individual ("the Vendor") to perform the services and/or sale of goods, described in the attached State documents, if any, and the Vendor's bid or quotation, both of which are incorporated herein by reference.

2. COMPLIANCE BY VENDOR WITH LAWS AND REGULATIONS. In connection with the performance of this agreement, the Vendor shall comply with all statutes, laws, regulations, and orders of federal, state, county or municipal authorities which shall impose any obligation or duty upon the Vendor, including, but not limited to civil rights and equal opportunity laws.

3. TERM. The contract, and all obligations of the parties thereunder, shall become effective on a specified date and shall be completed in their entirety prior to a specified date. Any work undertaken by the Vendor prior to the effective date shall be at his sole risk and, in the event that the contract shall not become effective, the State shall be under no obligation to reimburse the Vendor for any such work.

4. CONTRACT PRICE. The contract price, a payment schedule and a maximum limitation of price shall be as specified by the bid invitation and the Vendor's bid. All payments shall be conditioned upon receipt, and approval by the State, of appropriate vouchers and upon satisfactory performance by the Vendor, as determined by the State. The payment by the State of the Contract Price shall constitute complete reimbursement to the Vendor for all expenses of any nature incurred by the Vendor in the performance by the Vendor and complete payment for the Services. The State shall have no other liability to the Vendor.

5. DELIVERY. If the vendor fails to furnish items and/or services in accordance with all requirements, including delivery, the state may re-purchase similar items from any other source without competitive bidding, and the original vendor may be liable to the state for any excess costs.

If a vendor is unable to complete delivery by the date specified, he must contact the using agency. However, the agency is not required to accept a delay to the original delivery date. All deliveries are subject to inspection and receiving procedure rules as established by the State of New Hampshire. Deliveries are not considered accepted until compliance with these rules has been established. State personnel signatures on shipping documents shall signify only the receipt of shipments. All deliveries shall be FOB Destination.

6. INVOICING. All invoices must be in triplicate showing Order Number, Unit and Extension Prices and discounts allowed. A separate invoice shall be submitted for each order. Unless otherwise noted on the invitation to bid or purchase order, payment will not be due until thirty (30) days after all services have been completed, or all items have been delivered, inspected and accepted or the invoice has been received at the agency business office, whichever is later.

7. PERSONNEL.

7.1. The Vendor shall disclose in writing the names of all owners (5% or more), directors, officers, employees, agents or subcontractors who are also officials or employees of the State of New Hampshire. Any change in this information shall be reported in writing within fifteen (15) days of their occurrence.

7.2. The person signing this agreement on behalf of the State, or his or her delegatee ("Contracting Officer") shall be the State's representative for purposes of this agreement. In the event of any dispute concerning the interpretation of this agreement, the Contracting Officer's decision shall be final.

8. EVENT OF DEFAULT; REMEDIES.

8.1. Any one or more of the following acts or omissions of the Vendor shall constitute an event of default hereunder ("Events of Default"):

8.1.1. failure to deliver the goods or services satisfactorily or on schedule; or

8.1.2. failure to submit any report required hereunder; or

8.1.3. failure to perform any of the other covenants and conditions of this agreement.

8.2. Upon the occurrence of any Event of Default, the State may take any one, or more, or all, of the following actions:

8.2.1. give the Vendor a written notice specifying the Event of Default and requiring it to be remedied within, in the absence of a greater or lesser specification of time, thirty (30) days from the date of the notice; and if the Event of Default is not timely remedied, terminate this agreement, effective two (2) days after giving the Vendor notice of termination; and

8.2.2. give the Vendor a written notice specifying the Event of Default and suspending all payments to be made under this agreement and ordering that the portion of the Contract Price, which would otherwise accrue to the Vendor during the period from the date of such notice until such time as the State determines that the Vendor has cured the Event of Default, shall never be paid to the Vendor; and

8.2.3. set off against any other obligation the State may owe to the Vendor any damages the State suffers by reason of any Event of Default; and

8.2.4. treat the agreement as breached and pursue any of its remedies at law or in equity, or both.

9. WAIVER OF BREACH. No failure by the State to enforce any provisions hereof after any Event of Default shall be deemed a waiver of its rights with regard to that Event, or any subsequent Event. No express failure of any Event of Default shall be deemed a waiver of any provision hereof. No such failure or waiver shall be deemed a waiver of the right of the State to enforce each and all of the provisions hereof upon any further or other default on the part of the Vendor.

10. VENDOR'S RELATION TO THE STATE. In the performance of this agreement the Vendor is in all respects an independent contractor, and is neither an agent nor an employee of the State. Neither the Vendor nor any of its officers, employees, agents or members shall have authority to bind the State nor are they entitled to any of the benefits, workmen's compensation or emoluments provided by the State to its employees.

11. ASSIGNMENT AND SUBCONTRACTS. The Vendor shall not assign, or otherwise transfer any interest in this agreement without the prior written consent of the State. No work required by this contract shall be subcontracted without the prior written consent of the State.

12. INDEMNIFICATION. The contractor shall defend, indemnify and hold harmless the State, its officers and employees, from and against any and all losses suffered by the State, its officers and employees, and any and all claims, liabilities or penalties asserted against the State, its officers and employees, by or on behalf of any person, on account of, based on, resulting from, arising out of (or which may be claimed to arise out of) the acts or omissions of the Vendor. Notwithstanding the foregoing, nothing herein contained shall be deemed to constitute a waiver of the sovereign immunity of the State, which immunity is hereby reserved to the State. This covenant shall survive the termination of this agreement.

12.1 PATENT PROTECTION. The seller agrees to indemnify and defend the State of New Hampshire from all claims and losses resulting from alleged and actual patent infringements and further agrees to hold the State of New Hampshire harmless from any liability arising under RSA 382-A:2-312(3). (Uniform Commercial Code).

13. TOXIC SUBSTANCES. In compliance with RSA 277-A known as the Workers Right to Know Act, the vendor shall provide Material Safety Data Sheets with the delivery of any and all products covered by said law.

14. NOTICE. Any notice by a party hereto to the other party shall be deemed to have been duly delivered or given at the time of mailing by certified mail, postage prepaid, in a United States Post Office addressed to the parties at the addresses given below.

15. AMENDMENT. This agreement may be amended, waived or discharged only by an instrument in writing signed by the parties hereto.

16. CONSTRUCTION OF AGREEMENT AND TERMS. This agreement shall be construed in accordance with the laws of the State of New Hampshire, and is binding upon and inures to the benefit of the parties and their respective successors and assigns.

17. ADDITIONAL PROVISIONS. The additional provisions (if any) have been set forth as Exhibit "A" hereto.

18. ENTIRE AGREEMENT. This agreement, which may be executed in a number of counterparts, each of which shall be deemed an original, constitutes the entire agreement and understanding between the parties, and supersedes all prior agreements and understandings relating hereto.

BID INVITATION FOR: HOT WATER BOILER & HOT AIR FURNACE, SUPPLY & INSTALL

PURPOSE:

The purpose of this bid invitation is to establish a contract in the form of a purchase order for supplying the State of New Hampshire, Department of Fish & Game with one new boiler and a hot air furnace, in accordance with the requirements of this bid invitation and any resulting order. Said products to be delivered and installed at the delivery/installation location indicated.

VENDOR CERTIFICATIONS

All bidders must be duly registered as a vendor authorized to conduct business in the State of New Hampshire.

- **STATE OF NEW HAMPSHIRE VENDOR APPLICATION.**

Bidders must have a completed Vendor Application and W-9 Form on file with the NH Bureau of Purchase and Property. See the following website for information on obtaining and filing the required forms (no fee):

<http://www.admin.state.nh.us/purchasing>

- **NEW HAMPSHIRE SECRETARY OF STATE REGISTRATION**

A person or persons conducting business under any name other than his/her own legal name must register with the NH Secretary of State. Businesses are classified as 'Domestic' (in-state) or 'foreign' (out-of-state). Please visit the following website to find out more about the requirements and filing fees for both classifications: <http://www.state.nh.us/sos/corporate>

SPECIFICATION COMPLIANCE:

The manufacturer and model indicated are representative of the type and quality required. You may bid different makes and models, however, your offer must be materially similar to the one indicated.

All equipment offered by the bidder *must be new and the latest production model*; shall not be used, rebuilt, refurbished; shall not have been used as demonstration equipment, and shall not have been placed anywhere for evaluation purposes.

If there are any specifications indicated in this bid invitation, they will be considered the minimum requirements. Bidder's offer must meet or exceed these minimum requirements.

INSTALLATION REQUIREMENTS:

Successful bidder shall be required to supply, deliver, uncrate, set into place, and make all of the final connections **including electrical and plumbing**, start-up and test all of the equipment awarded. Bidder will also remove from site and properly dispose of **all replaced /old components and any packaging material**. All electrical and plumbing work will meet all existing State and local installation codes.

Prior to award, the successful bidder shall be required to submit a Certificate of Insurance as proof of his general comprehensive liability insurance.

SITE VISITATION:

Prior to bidding, it is each bidder's responsibility to become thoroughly familiar with the site of the intended installation, to determine everything necessary to accomplish the installation.

Call **Dave Riel @ 603-764-8593** to make an appointment to view the site of the intended installation.

WARRANTY REQUIREMENTS:

Successful bidder shall be required to provide a USA warranty on all of the equipment awarded for a period of not less than the manufacturer's standard period of time. The installation shall carry a warranty of (1) one year from the date the installation is completed and accepted by the State of New Hampshire. The warranty shall cover 100% of all parts, labor, travel, lodging and expenses.

BID PRICES:

Bid prices shall include all equipment (with all of the options and accessories that may be required by the specifications), cables, cords, all hardware and supplies necessary for installation, warranty, delivery, installation and all other costs.

DELIVERY AND INSTALLATION POINT:

NEW HAMPSHIRE DEPARTMENT OF FISH & GAME
WARREN HATCHERY
ROUTE 25
WARREN NH, 03279

REQUISITION NO.:

193995

AWARD:

Award will be made to the bidder offering the lowest total cost per section (there are 2 sections) that meets or exceeds all specifications as listed

SECTION A: HOT WATER BOILER, LOCATED IN SUPERINTENDENTS HOUSE

BOILER MINIMUM SPECIFICATIONS:

- Cast iron 4 sections steam boiler
- # 2 oil fired
- Burner will be manufactured by Beckett
- Controls manufactured by Honeywell
- Automatic boiler feed manufactured by McDonald –Miller
- Steel push nipples
- Mbh gross out put range 113 – 156

INSTALLATION MINIMUM SPECIFICATIONS:

- Remove and properly dispose of existing boiler
- Install new boiler to manufacturers installation standards and current codes
- Installation will include all electrical and steam connections to code
- Installation will include automatic water feed and new smoke pipe to existing chimney
- Reconnect and reuse existing thermostat
- Permits to be bidders responsibility and expense
- Test and run system for efficiency.
- Provide all pipe, fittings and controls to make system fully operational
- 1 complete set of parts, service and repair manuals

OFFER:

The unit prices and extensions indicated should be government and/or educationally discounted prices.

Successful bidder hereby offers to supply and completely install the above required item(s) in complete accordance with the requirements of this bid invitation and the established specifications, at the total price of \$_____.

PEERLESS # ECT04SU OIL FIRED STEAM BOILER is representative of the type and quality required; the manufacturer and product number of your offer for this item is:

If quoting other than indicative model, complete, **detailed manufacturers specifications must be supplied to the Bureau of Purchase and Property upon request.**

DELIVERY AND INSTALLATION TIME:

The successful bidder hereby agrees to accomplish delivery and complete installation of said equipment within _____ days after receipt of purchase order.

SECTION B: HOT AIR FURNACE, LOCATED IN THE HATCHERY BUILDING

FURNACE MINIMUM SPECIFICATIONS:

- output Btu/hr 100,000 minimum
- Blower motor ¾ hp minimum
- Flue size 6"
- Heat exchanger construction minimum gauge is 14 ga
- Oil burner Manufactured by Becket (only)
- Controls Honeywell (only)
- Unit includes filter rack and filter
- Overall dimensions not to exceed 60" tall x 25" wide x 33" Deep
- Layout front breach up flow design
- # 2 oil fired

INSTALLATION MINIMUM SPECIFICATIONS:

- Remove and properly dispose of existing furnace
- Install new furnace to manufacturers installation standards and current codes
- Installation will include all electrical and fuel feed and duct connections to code
- Installation will include a new plenum run to the main warehouse (bidder to review with agency contact at walkthrough)
- Reconnect and reuse existing thermostat
- Install a new oil line and sleeve between the new furnace and the oil tank, re use existing inline filter & housing
- Permits to be bidders responsibility and expense
- Test and run system for efficiency.
- Provide all pipe, fittings, ducting and controls to make system fully operational
- 1 complete set of parts, service and repair manuals

OFFER:

The unit prices and extensions indicated should be government and/or educationally discounted prices.

Successful bidder hereby offers to supply and completely install the above required item(s) in complete accordance with the requirements of this bid invitation and the established specifications, at the total price of \$_____.

Olsen #HTL 100-C is representative of the type and quality required; (LITERATURE ATTACHED) the manufacturer and product number of your offer for this item is:

If quoting other than indicative model, complete, **detailed manufacturers specifications must be supplied to the Bureau of Purchase and Property upon request.**

DELIVERY AND INSTALLATION TIME:

The successful bidder hereby agrees to accomplish delivery and complete installation of said equipment within _____ days after receipt of purchase order.

BIDDER OFFER FORMAT:

THIS BID 127 MAY HAVE BEEN DELIVERED TO YOU IN A FACSIMILE OR MAILED FORMAT., **BIDDERS MUST RETURN THEIR SIGNED HARD COPY OR COMPLETE FAX COPY OFFERS TO THE BUREAU OF PURCHASE AND PROPERTY BEFORE 1:30 ON 11/19/2003.**

Mailing address will be:

**BUREAU OF PURCHASE AND PROPERTY
ROOM 102, STATE HOUSE ANNEX
25 CAPITOL STREET CONCORD, NH 03301
BID #127, OPENING @ 1:30 PM ON 11/19/2003**

FAX NUMBER

603-271-2700

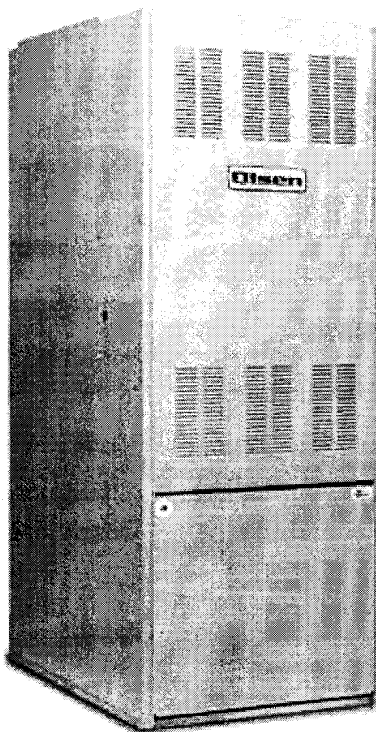
BID RESULTS:

Bid results **will not be given** over the telephone. Bid results will be mailed to you if you include a self-addressed envelope with the correct amount of postage on it. Bid results may also be viewed on our web site at: <http://www.state.nh.us/das/purchasing/bids.htm>

**QUALITY
PRODUCTS**



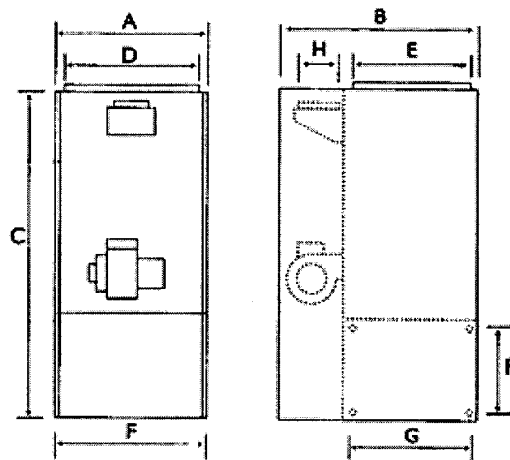
Quality Oil Furnaces



Olsen HTL HighBoy Series

- High Efficiency Front Breach Upflow Oil Furnace
- 79,000 to 119,000 BTU/h Output
- Up to 83% Annual Fuel Utilization Efficiency
- Long lasting, top quality construction
- Superior Design Advantages

HTL Dimensions							
Cabinet			Plenum Openings		Flue Dia. (H)	Filter	Shipping Weight
Width (A)	Depth (B)	Height (C)	Supply Air (D x E)	Return Air (F x G)			
22	30 3/4	58	20 1/2 x 20	14 x 22	6	16 x 25 x 1	270 lbs





Peerless Boilers

End Users

SITE INDEX



MONDAY - OCTOB

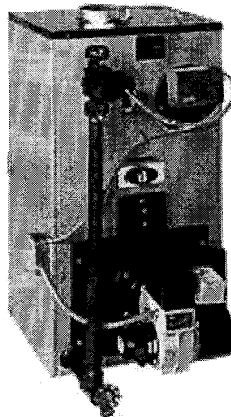
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August 15, 2003

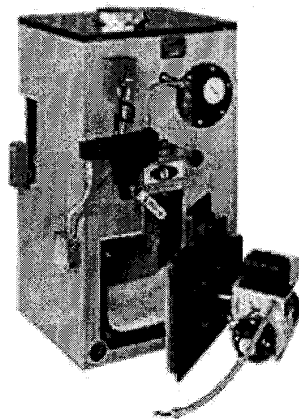
Peerless Boilers Introduces New Indirect-Fired Water Heater

Peerless Boilers is proud to introduce the 30-gallon, Peerless® Partner®... [MORE](#)

Series EC/ECT



Water



Steam

Type:	Residential
Construction:	Cast Iron
Fuel:	Oil-Fired
Input:	105 to 420 MBH
Output:	91 to 347 MBH (
Venting:	Natural Draft
Trim:	Water or Steam
Combustion:	Flame Retention



- Large Water Volume
- Packaged or Knockdown Oil Boilers
- Natural Draft Venting
- Flame Retention Burners
- Steam or Hot Water Boilers
- Optional Tankless Coils
- Skim Tapping for Cleaning Steam Boilers

The Series EC/ECT is a residential, oil-fired boiler for steam or hot water system. Available as a packaged or knockdown unit, the Series EC/ECT is for use with natural draft (chimney) venting. The large water content of the boiler makes it ideal for

and large volume hot water applications. Features include steel push nipples that provide a permanent water tight seal between sections, and a deluxe, insulated enameled steel jacket that reduces boiler heat loss. A full plate swing-out door on Series EC/ECT allows for quick and easy boiler cleaning. Honeywell operating controls, a Taco circulator, and a float type low water cut-off on packaged steam boilers are standard equipment on Series EC/ECT boilers.

High Efficiency, Flame Retention Burners — Peerless Series EC/ECT boilers are available with your choice of Beckett, Carlin or Riello burners. These burners feature high voltage, solid state igniter that improves ignition, and a state of the art microprocessor results in a lower amp draw and cooler operation. Burners also include a solid state control with interrupted ignition, limited recycle and reset, a pre-purge and other features that assure dependable service. The combination of the advanced controls and a solenoid oil valve results in cleaner and quieter burner operation.

Product Ratings

Boiler Model Number	Burner Input		DOE Heating Capacity MBH [†]		Net I-B-R Ratings [‡]			Seasonal Efficiency (AFUE)		Water Content (Gallons)		A D S
	GPH [†]	MBH	Gross Output		Steam Sq. Ft.	Steam MBH [†]	Water MBH [†]	Combustion Efficiency [§]		Water	Steam	
			Water	Steam				Water	Steam			
EC/ECT-03*	0.75	105	92	91	283	68	80	86.6*	85.4*	17.40	14.16	
EC/ECT-03*	1.00	140	121	120	375	90	105	85.3*	84.4	17.40	14.16	
EC/ECT-03	1.20	168	144	142	446	107	125	83.9	82.9	17.40	14.16	
EC/ECT-04*	1.25	175	152	151	471	113	132	86.1*	85.1*	21.72	17.28	
EC/ECT-04*	1.50	210	181	180	563	135	157	85.2*	84.5	21.72	17.28	
EC/ECT-04	1.75	245	209	208	650	156	182	84.5	83.8	21.72	17.28	
EC/ECT-05*	1.75	245	214	212	663	159	186	86.2*	85.6*	26.04	20.40	
EC/ECT-05*	2.00	280	241	240	750	180	210	85.2*	84.6	26.04	20.40	
EC/ECT-05†	2.50	350	286	286	896	215	249	84.1	84.1	26.04	20.40	
EC/ECT-06†	2.75	385	321	321	1004	241	279	84.4	84.4	30.36	23.52	
EC/ECT-06†	3.00	420	347	347	1083	261	302	83.7	83.7	30.36	23.52	

* As an ENERGY STAR Partner, Peerless Heater Company has determined that these firing rates meet the ENERGY STAR guidelines for energy efficiency.

† All chimneys are 8" x 8" x 20' except those models denoted with (†), which are 8" x 12" x 20'.

‡ Burner input based on No. 2 fuel oil with a heating value of 140,000 Btu per gallon.

§ Net I-B-R water ratings based on an allowance of 1.15.

§ Net I-B-R steam ratings based on an allowance of 1.333.

§ Consult factory before selecting a boiler for installations having unusual piping and pickup requirements, such as intermittent system operation, extensive piping systems, etc.

§ Heating Capacity and Annual Fuel Utilization Efficiency (AFUE) ratings are based on U.S. Government tests, with 13% CO₂ and -0.02" w.c. draft over fire. Before purchasing this appliance, read important information about its estimated annual energy consumption or energy efficiency rating that is available from your retailer.

§ Combustion efficiency and gross output are determined in accordance with The Hydronics Institute's Testing and rating standard for Heating Boilers, @ 12.5% CO₂ and 0.02" w.c. draft over fire.

Click on chart for PDF



Product Dimensions



Boiler Dimensions	Jacket		Top to Floor "C"	Left of Jacket to c/l of Flue "D"	Rear of Jacket to c/l of Flue "E"	Flue Size "F"	Distance Between Tappings "G"	Chi S
	Width "A"	Depth "B"						
EC/ECT-03	22½"	15¾"	42"	10"	8¾"	6"	9½"	8"x12"
EC/ECT-04	22½"	19½"	42"	10"	10⅞"	7"	13¼"	8"x12"
EC/ECT-05	22½"	24⅛"	42"	10"	13"	8"	17⅞"	8"x12"
EC/ECT-06	22½"	28⅞"	42"	10"	15½"	9"	21⅞"	8"x12"

*EC/ECT-05 with burner input of 2.50 GPH has chimney size of 8"x12"x20'

Click on chart for PDF

Product Resources



Catalog Literature

931 k

01/21/03

[VIEW / DOWNLOAD](#)



FAB Sheet

69 k

10/21/03

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IO&M Manual

500 k

01/21/03

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